

CLAIMS

What is claimed is:

- 1 1. A computer peripheral device configurable between a computer processor and a computer monitor,
2 the device comprising:
 - 3 (a) a video input interface configured to receive a digital video signal from the computer processor;
 - 4 (b) a television (TV) interface configured to receive at least one TV signal from a TV source;
 - 5 (c) a device processor configured to combine the digital video signal and a TV video signal from each
6 TV signal to generate a combined digital video signal; and
 - 7 (d) a video output interface configured to transmit the combined digital video signal to the computer
8 monitor.
- 1 2. The invention of claim 1, wherein each TV video signal appears within a corresponding window in
2 the digital video signal.
- 1 3. The invention of claim 2, wherein the device processor automatically modifies one or more
2 dimensions of each TV video signal based on dimensions of the corresponding window in the digital video
3 signal.
- 1 4. The invention of claim 3, wherein the device further comprises a data interface configured to
2 communicate with the computer processor, wherein the device processor receives location and the dimensions
3 of the corresponding window from the computer processor via the data interface.
- 1 5. The invention of claim 3, wherein the device processor automatically determines location and the
2 dimensions of the corresponding window by analyzing the digital video signal received from the computer
3 processor.
- 1 6. The invention of claim 5, wherein the device processor determines the location and the dimensions of
2 the corresponding window based on a specified keying signal for the window.
- 1 7. The invention of claim 1, wherein the device further comprises:
 - 2 (e) an audio input interface configured to receive one or more audio signals from the computer processor,
3 wherein the device processor is configured to combine the one or more audio signals with one or more TV
4 audio signals from the at least one TV signal to generate one or more combined audio signals; and
 - 5 (f) an audio output interface configured to transmit the one or more combined audio signals to one or
6 more computer speakers.
- 1 8. The invention of claim 1, wherein the digital video signal received from the computer processor
2 corresponds to a web-page layout accessed from a web site by a web browser implemented on the computer
3 processor and each TV video signal is overlayed over a corresponding window in the web-page layout.
- 1 9. The invention of claim 8, wherein the device further comprises a data interface configured to
2 communicate with the computer processor.

1 10. The invention of claim 9, wherein the device processor extracts data from at least one TV signal and
2 transmits the extracted data to the computer processor via the data interface, wherein the extracted data
3 comprises at least one message used by the web browser to access an updated web-page layout.

1 11. The invention of claim 9, wherein the device processor receives information relating to location and
2 dimensions of each window in the web-page layout from the computer processor.

1 12. The invention of claim 9, wherein the device processor extracts information relating to location and
2 dimensions of each window in the web-page layout from the at least one TV signal.

1 13. At a web site server in a computer network, a computer-implemented method comprising the steps of:

2 (a) generating signals corresponding to a web site supported by the web site server; and

3 (b) transmitting the signals from the web site server to a computer processor in the computer network,
4 wherein the signals comprise:

5 (1) a digital video signal corresponding to the web site; and

6 (2) instructions for implementation by the computer processor for coordinating combination of the
7 digital video signal corresponding to the web site with at least one TV signal from a TV source into a
8 combined digital video signal.

1 14. The invention of claim 13, wherein the digital video signal corresponding to the web site is combined
2 with the at least one TV signal by a computer peripheral device configured to:

3 (i) receive the digital video signal corresponding to the web site from the computer processor;

4 (ii) receive the at least one TV signal from the TV source; and

5 (iii) transmit the combined digital video signal to a computer monitor.

1 15. The invention of claim 14, wherein each TV video signal appears within a corresponding window in
2 the digital video signal corresponding to the web site.

1 16. The invention of claim 15, wherein the computer peripheral device automatically modifies one or
2 more dimensions of each TV video signal based on dimensions of the corresponding window in the digital
3 video signal corresponding to the web site.

1 17. The invention of claim 16, wherein the computer peripheral device receives location and the
2 dimensions of the corresponding window from the computer processor.

1 18. The invention of claim 16, wherein the computer peripheral device automatically determines location
2 and the dimensions of the corresponding window by analyzing the digital video signal corresponding to the
3 web site received from the computer processor.

1 19. The invention of claim 18, wherein the computer peripheral device determines the location and the
2 dimensions of the corresponding window based on a specified keying signal for the window.

1 20. The invention of claim 16, wherein the computer peripheral device extracts information relating to
2 location and the dimensions of the corresponding window from the at least one TV signal.

-10-

1 21. The invention of claim 14, wherein the computer peripheral device is further configured to:

2 (iv) receive one or more audio signals corresponding to the web site from the computer processor, wherein
3 the computer peripheral device is configured to combine the one or more audio signals corresponding to the
4 web site with one or more TV audio signals from the at least one TV signal to generate one or more combined
5 audio signals; and

6 (v) transmit the one or more combined audio signals to one or more computer speakers.

1 22. The invention of claim 14, wherein the computer peripheral device extracts data from at least one TV
2 signal and transmits the extracted data to the computer processor, wherein the extracted data comprises at
3 least one message used by the computer processor to access an updated web-page layout from the web site
4 server.

09070310-053004